July 2020
Revised 8/24/2020

MICHIGAN
Office of Highway Safety Planning
2019

MTCF
Michigan Traffic Crash Facts

Michigan Traffic Crash Facts

Reporting Criteria

Please pay particular attention to the wording when interpreting the three levels of data gathered for this report.

Crash
The Crash Level analyzes data related to crash events and returns one result per crash.

Examples: Time, weather, and location.

Units
The Units Level analyzes the experience of the units in the crash and returns one result per vehicle, driver, pedestrian, bicyclist, or train.

Examples: Vehicle type, driver condition, and unit events.

People
The People Level analyzes the experience of the people involved in the crash and returns one result per occupant/person/party.

Examples: Age, injury severity, and seat belt or helmet use.

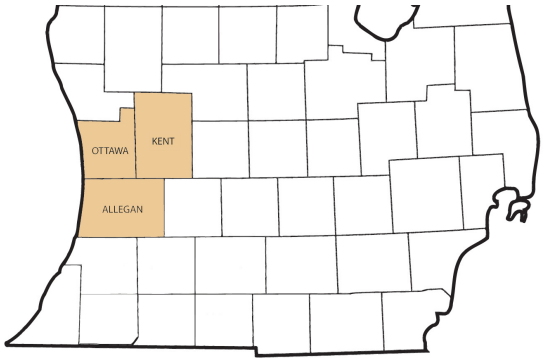
KABCO Injury Indicator:
K = Killed
A = Suspected Serious Injury
B = Suspected Minor Injury
C = Possible Injury
O = No Injury
Property Damage Only (PDO)

UMTRI
University of Michigan
Transportation Research Institute

Traffic Safety Network West Michigan

2019 Traffic Crash Data & 2015-2019 5-Year Trends

Traffic Safety Network West Michigan is comprised of Allegan, Kent, and Ottawa counties. Trend tables for this report are based on those counties.



Sources:
The crashes in this report occurred on public roadways in Michigan and resulted in injuries, fatalities, or property damage (with $1,000 as a reporting threshold). The information was gathered from Michigan Traffic Crash Report Forms (UD-10) submitted by local police departments, sheriff's offices, and the Michigan State Police. Other related information was obtained from the departments of Transportation, State, and Community Health.

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TSN West Michigan

TSN West Michigan Experience

In 2019:

There were 62,805 drivers involved in 35,616 motor vehicle crashes in Traffic Safety Network West Michigan. Of those crashes, 79 were classified as fatal, resulting in 81 fatalities. An additional 7,840 persons were injured.

Traffic Safety Network West Michigan experienced the highest number of motor vehicle crashes (3,931) in January, the highest number of fatal crashes (12) and the highest number of persons killed (13) in July.

Michigan driver statistics indicate 7.0 percent of licensed drivers in Traffic Safety Network West Michigan were age 16-20, and 11.3 percent of drivers in crashes were also in that age group.

2019 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	3,931	2	506	3,423	2	681
February	3,114	2	405	2,707	2	502
March	2,546	5	374	2,167	5	516
April	2,500	6	466	2,028	6	635
May	2,691	6	498	2,187	6	685
June	2,691	8	491	2,192	8	652
July	2,483	12	529	1,942	13	752
August	2,601	8	490	2,103	8	668
September	2,668	7	512	2,149	7	693
October	3,655	11	584	3,060	12	763
November	3,635	6	506	3,123	6	666
December	3,101	6	469	2,626	6	627
Total	**35,616**	**79**	**5,830**	**29,707**	**81**	**7,840**

2019 - Driver Statistics

Age Group	West Michigan			Driver Rates	
	2019 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	225,967	6,719	82	3.6	122.0
16 - 20	75,387	53,623	7,081	939.3	1,320.5
21 - 24	61,659	52,729	6,533	1,059.5	1,239.0
25 - 64	545,646	509,468	37,754	691.9	741.0
65 +	158,207	143,937	5,404	341.6	375.4
Unknown	0	0	5,951	- -	- -
Total	**1,066,866**	**766,476**	**62,805**	**588.7**	**819.4**

2019 - Vehicles in Crashes

Vehicle Type	Motor Vehicles		Fatal Crashes		Injury Crashes	PDO Crashes
	Number of Vehicles	% of Total	Number	% of Total	Number	Number
Passenger car, SUV, van	51,958	82.7	94	69.6	9,324	42,540
Motor home	70	0.1	1	0.7	8	61
Pickup truck	6,190	9.9	15	11.1	1,005	5,170
Small truck under 10,000 lbs. GVWR	209	0.3	0	0.0	28	181
Motorcycle	290	0.5	9	6.7	207	74
Moped / goped	51	0.1	2	1.5	37	12
Go-cart / golf cart	2	0.0	0	0.0	1	1
Snowmobile	1	0.0	0	0.0	1	0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	9	0.0	0	0.0	7	2
Other	180	0.3	1	0.7	27	152
Truck/bus over 10,000 lbs.	2,093	3.3	13	9.6	323	1,757
Unknown	1,752	2.8	0	0.0	113	1,639
Total	**62,805**	**100.0**	**135**	**100.0**	**11,081**	**51,589**

TSN West Michigan (continued)

5-Year Trend - Crashes by Month

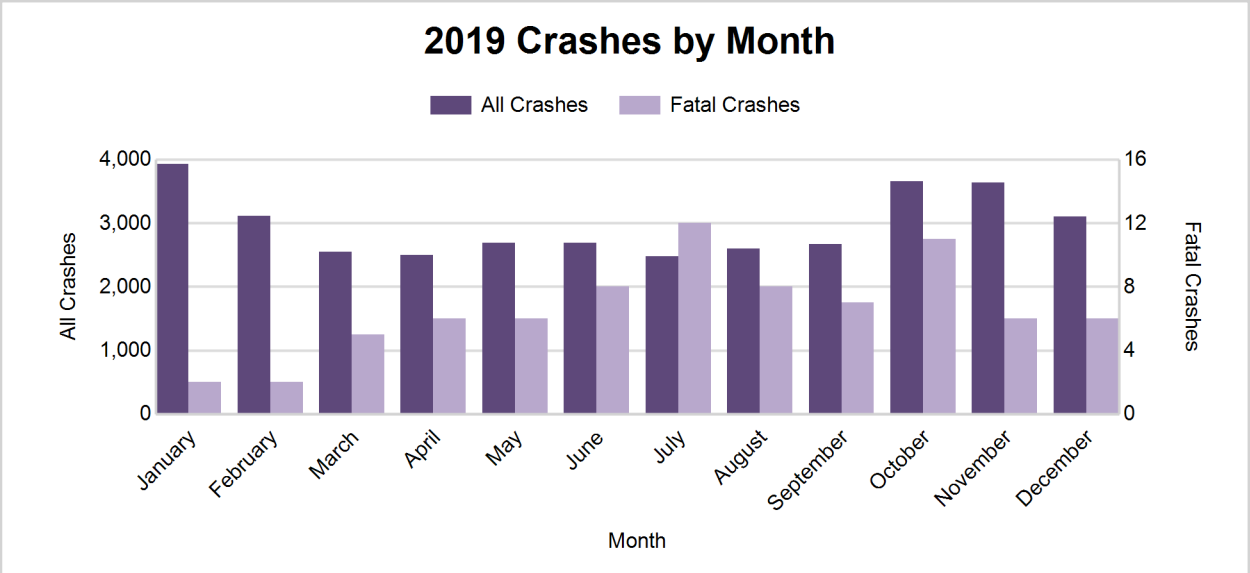
Month	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	3,526	8	3,238	6	3,157	7	3,215	10	3,931	2
February	3,146	8	2,611	6	2,241	6	2,819	4	3,114	2
March	2,151	5	2,455	4	2,617	12	2,321	4	2,546	5
April	1,895	4	2,352	12	2,310	6	2,650	8	2,500	6
May	2,373	11	2,671	5	2,710	7	2,622	13	2,691	6
June	2,400	9	2,598	10	2,726	9	2,561	4	2,691	8
July	2,285	3	2,408	8	2,512	5	2,405	11	2,483	12
August	2,194	17	2,705	6	2,529	10	2,633	15	2,601	8
September	2,360	3	2,724	12	2,581	13	2,673	15	2,668	7
October	3,070	9	3,123	9	3,443	5	3,466	4	3,655	11
November	2,988	8	3,228	10	3,080	12	3,770	3	3,635	6
December	2,832	8	4,171	7	4,545	3	2,937	8	3,101	6
Total	**31,220**	**93**	**34,284**	**95**	**34,451**	**95**	**34,072**	**99**	**35,616**	**79**

Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

5-Year Trend - Crashes by Day of Week

Day	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Monday	4,576	10	4,880	12	4,945	7	5,235	12	5,223	9
Tuesday	4,685	16	5,146	13	5,101	16	5,328	11	6,158	7
Wednesday	4,958	13	5,301	15	5,317	17	5,354	15	5,694	12
Thursday	4,804	10	5,540	11	5,459	17	4,891	16	5,296	10
Friday	5,207	13	5,882	15	5,965	13	5,790	13	5,757	20
Saturday	4,086	14	4,261	16	4,497	14	4,212	10	3,995	12
Sunday	2,904	17	3,274	13	3,167	11	3,262	22	3,493	9
Total	**31,220**	**93**	**34,284**	**95**	**34,451**	**95**	**34,072**	**99**	**35,616**	**79**

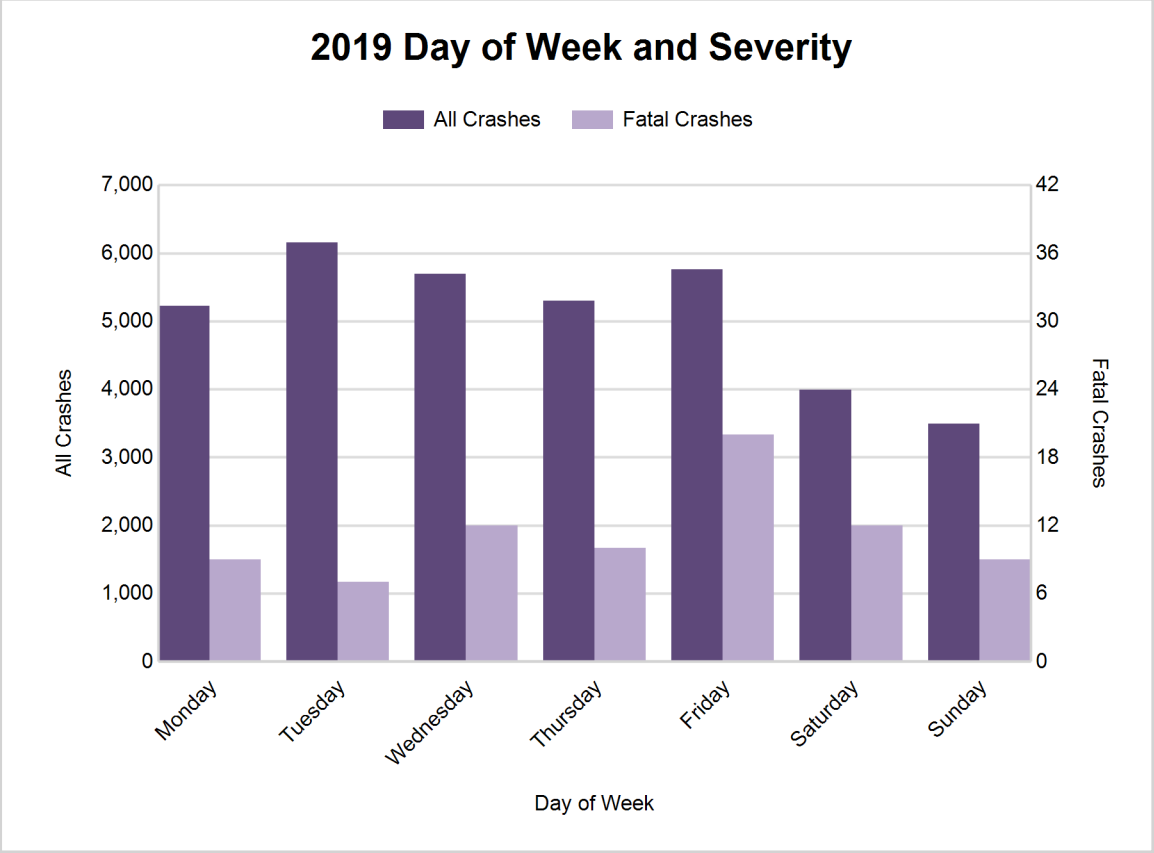
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred on the same day of the week



TSN West Michigan (continued)

2019 - Crashes by Day of Week

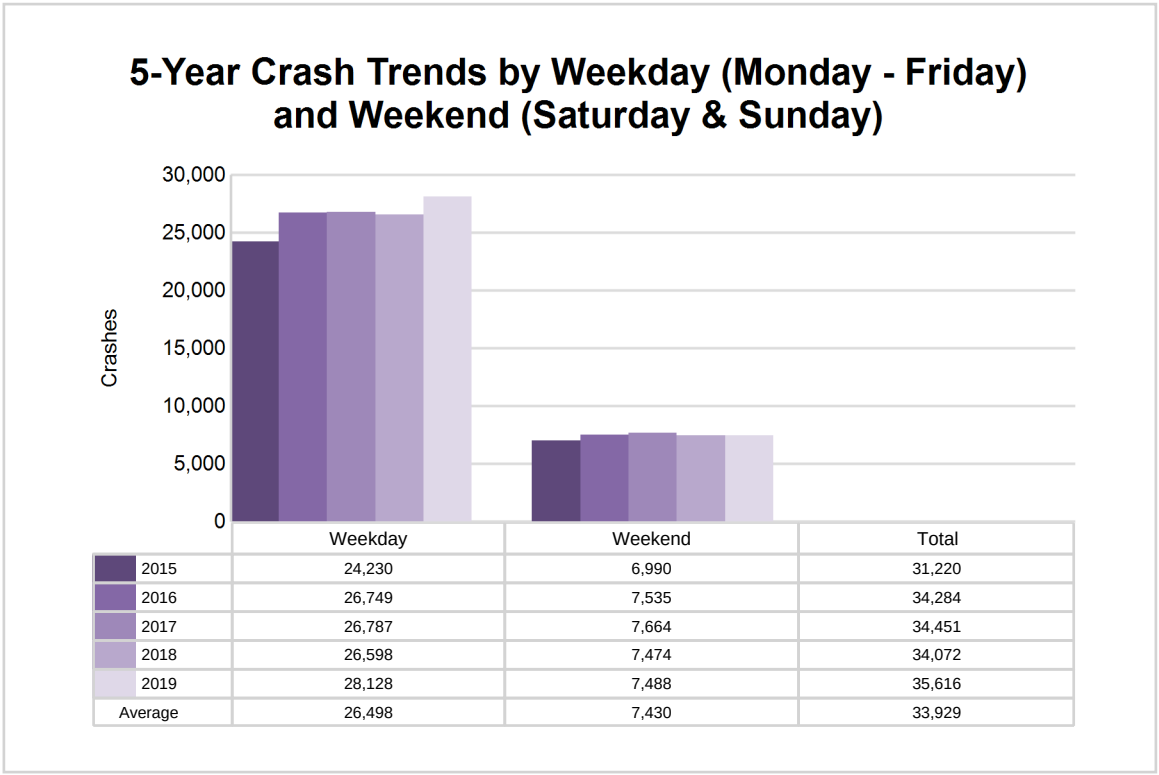
Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Monday	5,223	14.7	9	11.4	66	203	576	4,369
Tuesday	6,158	17.3	7	8.9	79	209	697	5,166
Wednesday	5,694	16.0	12	15.2	77	203	606	4,796
Thursday	5,296	14.9	10	12.7	76	219	595	4,396
Friday	5,757	16.2	20	25.3	78	213	619	4,827
Saturday	3,995	11.2	12	15.2	79	195	438	3,271
Sunday	3,493	9.8	9	11.4	70	166	366	2,882
Total	**35,616**	**100.0**	**79**	**100.0**	**525**	**1,408**	**3,897**	**29,707**



TSN West Michigan (continued)

5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	24,230	62	26,749	66	26,787	70	26,598	67	28,128	58
Weekend	6,990	31	7,535	29	7,664	25	7,474	32	7,488	21
Total	**31,220**	**93**	**34,284**	**95**	**34,451**	**95**	**34,072**	**99**	**35,616**	**79**



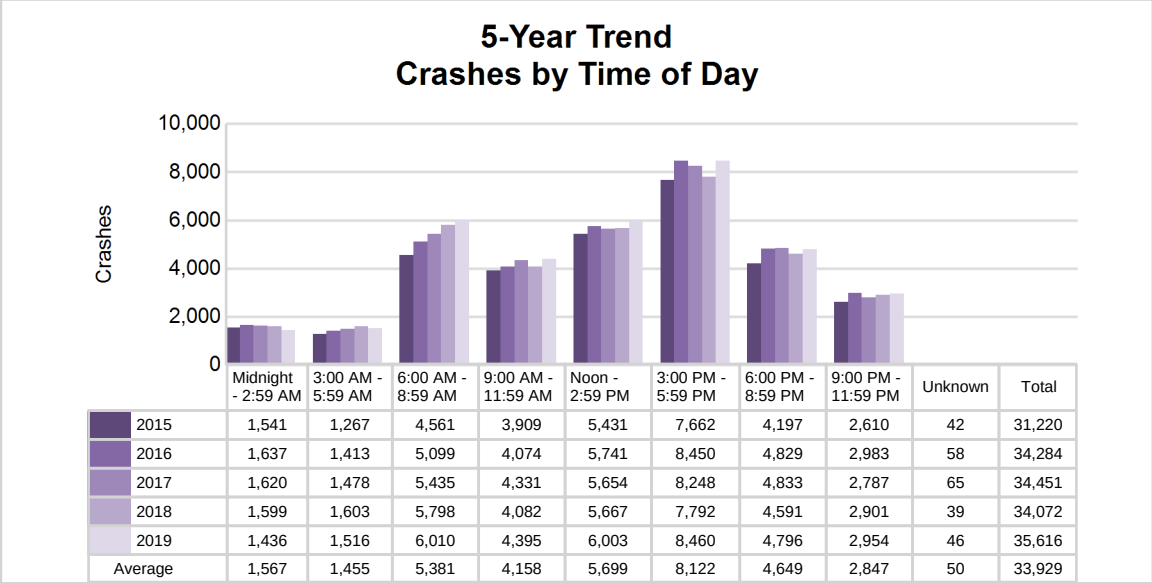
	Weekday	Weekend	Total
2015	24,230	6,990	31,220
2016	26,749	7,535	34,284
2017	26,787	7,664	34,451
2018	26,598	7,474	34,072
2019	28,128	7,488	35,616
Average	26,498	7,430	33,929

TSN West Michigan (continued)

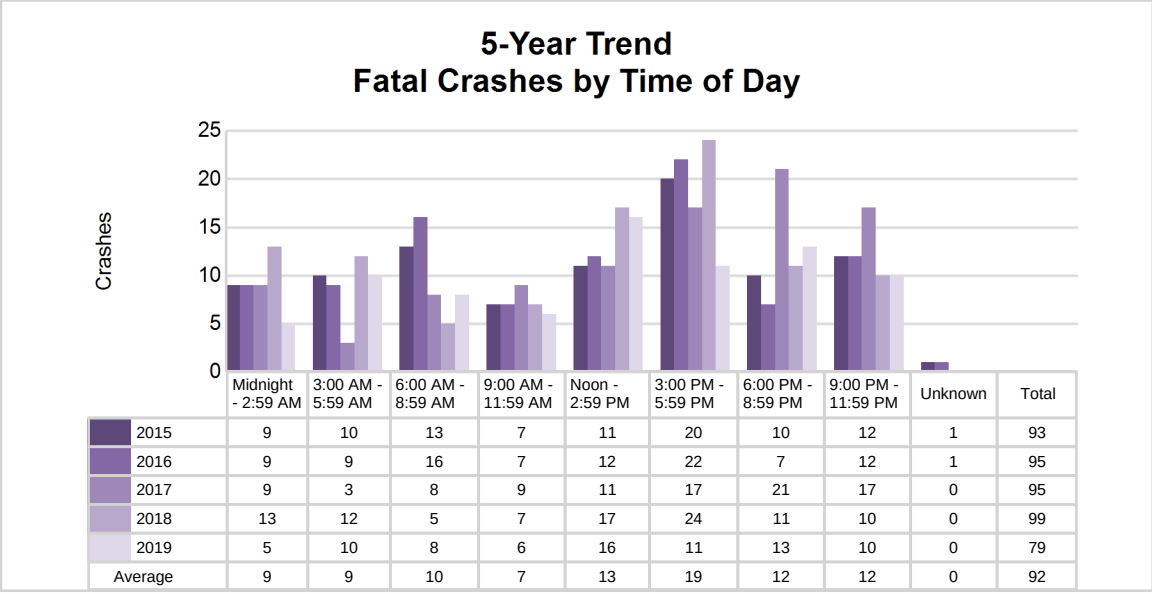
5-Year Trend - Crashes by Time of Day

Time of Day	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	1,541	9	1,637	9	1,620	9	1,599	13	1,436	5
3:00 AM - 5:59 AM	1,267	10	1,413	9	1,478	3	1,603	12	1,516	10
6:00 AM - 8:59 AM	4,561	13	5,099	16	5,435	8	5,798	5	6,010	8
9:00 AM - 11:59 AM	3,909	7	4,074	7	4,331	9	4,082	7	4,395	6
Noon - 2:59 PM	5,431	11	5,741	12	5,654	11	5,667	17	6,003	16
3:00 PM - 5:59 PM	7,662 †	20	8,450 †	22	8,248 †	17	7,792 †	24	8,460 †	11
6:00 PM - 8:59 PM	4,197	10	4,829	7	4,833	21	4,591	11	4,796	13
9:00 PM - 11:59 PM	2,610	12	2,983	12	2,787	17	2,901	10	2,954	10
Unknown	42	1	58	1	65	0	39	0	46	0
Total	**31,220**	**93**	**34,284**	**95**	**34,451**	**95**	**34,072**	**99**	**35,616**	**79**

Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



	Midnight - 2:59 AM	3:00 AM - 5:59 AM	6:00 AM - 8:59 AM	9:00 AM - 11:59 AM	Noon - 2:59 PM	3:00 PM - 5:59 PM	6:00 PM - 8:59 PM	9:00 PM - 11:59 PM	Unknown	Total
2015	1,541	1,267	4,561	3,909	5,431	7,662	4,197	2,610	42	31,220
2016	1,637	1,413	5,099	4,074	5,741	8,450	4,829	2,983	58	34,284
2017	1,620	1,478	5,435	4,331	5,654	8,248	4,833	2,787	65	34,451
2018	1,599	1,603	5,798	4,082	5,667	7,792	4,591	2,901	39	34,072
2019	1,436	1,516	6,010	4,395	6,003	8,460	4,796	2,954	46	35,616
Average	1,567	1,455	5,381	4,158	5,699	8,122	4,649	2,847	50	33,929

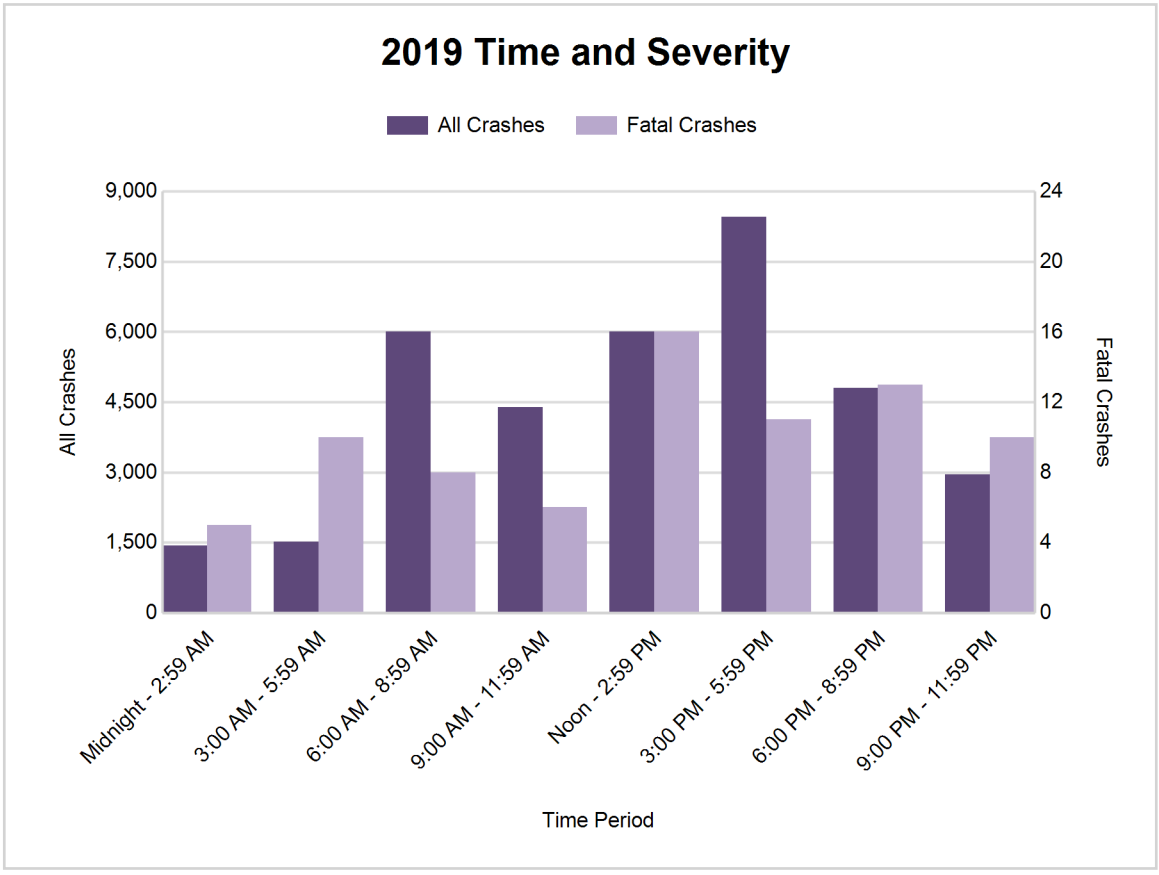


	Midnight - 2:59 AM	3:00 AM - 5:59 AM	6:00 AM - 8:59 AM	9:00 AM - 11:59 AM	Noon - 2:59 PM	3:00 PM - 5:59 PM	6:00 PM - 8:59 PM	9:00 PM - 11:59 PM	Unknown	Total
2015	9	10	13	7	11	20	10	12	1	93
2016	9	9	16	7	12	22	7	12	1	95
2017	9	3	8	9	11	17	21	17	0	95
2018	13	12	5	7	17	24	11	10	0	99
2019	5	10	8	6	16	11	13	10	0	79
Average	9	9	10	7	13	19	12	12	0	92

TSN West Michigan (continued)

2019 - Time and Severity

Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	1,436	4.0	5	6.3	42	65	131	1,193
3:00 AM - 5:59 AM	1,516	4.3	10	12.7	23	63	132	1,288
6:00 AM - 8:59 AM	6,010	16.9	8	10.1	72	183	589	5,158
9:00 AM - 11:59 AM	4,395	12.3	6	7.6	69	166	484	3,670
Noon - 2:59 PM	6,003	16.9	16	20.3	87	248	712	4,940
3:00 PM - 5:59 PM	8,460	23.8	11	13.9	100	325	1,062	6,962
6:00 PM - 8:59 PM	4,796	13.5	13	16.5	85	208	507	3,983
9:00 PM - 11:59 PM	2,954	8.3	10	12.7	47	150	280	2,467
Unknown	46	0.1	0	0.0	0	0	0	46
Total	**35,616**	**100.0**	**79**	**100.0**	**525**	**1,408**	**3,897**	**29,707**

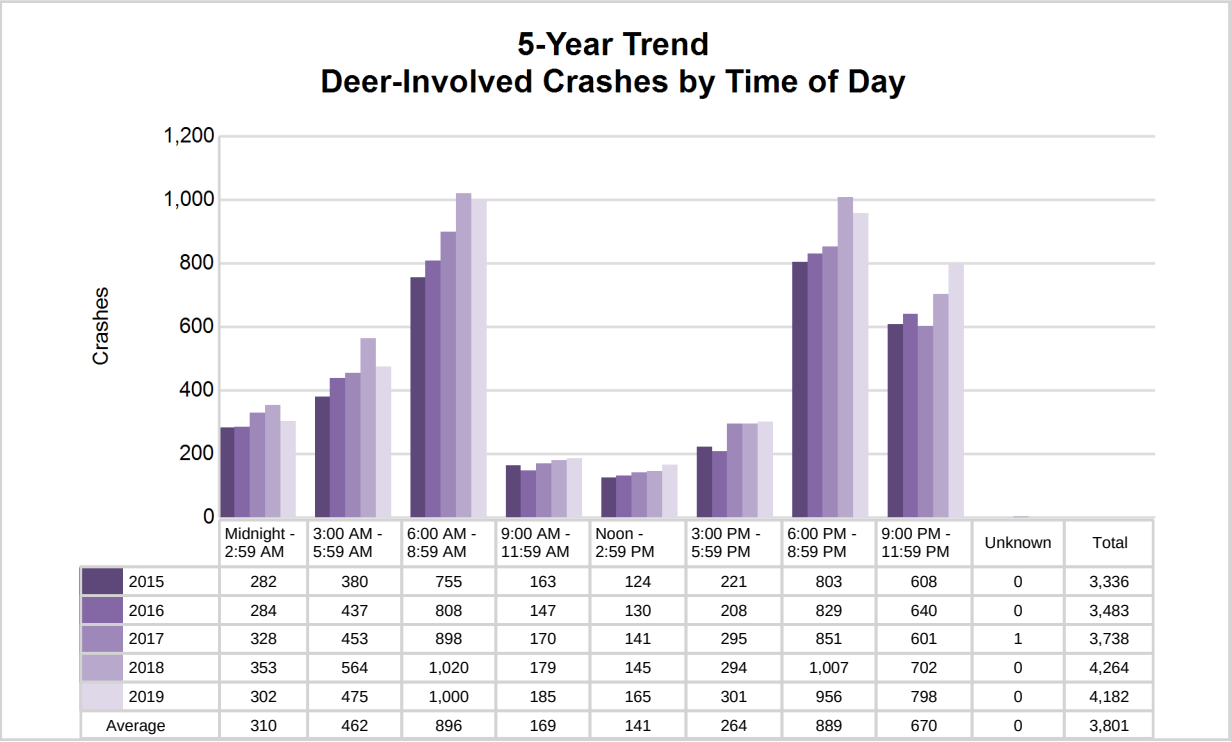


TSN West Michigan (continued)

5-Year Trend - Deer-Involved Crashes by Time of Day

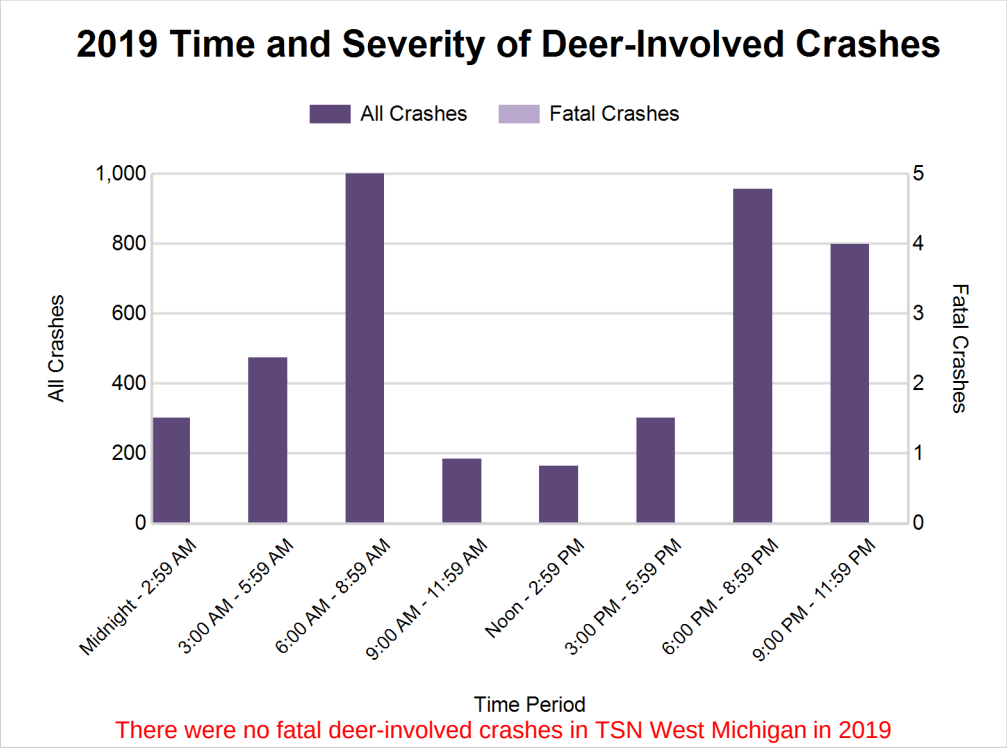
Time of Day	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	282	1	284	0	328	0	353	0	302	0
3:00 AM - 5:59 AM	380	0	437	0	453	0	564	0	475	0
6:00 AM - 8:59 AM	755	0	808	0	898	1	1,020	0	1,000	0
9:00 AM - 11:59 AM	163	0	147	0	170	0	179	0	185	0
Noon - 2:59 PM	124	0	130	0	141	0	145	0	165	0
3:00 PM - 5:59 PM	221	0	208	0	295	1	294	1	301	0
6:00 PM - 8:59 PM	803	0	829	0	851	0	1,007	0	956	0
9:00 PM - 11:59 PM	608	0	640	0	601	0	702	0	798	0
Unknown	0	0	0	0	1	0	0	0	0	0
Total	**3,336**	**1**	**3,483**	**0**	**3,738**	**2**	**4,264**	**1**	**4,182**	**0**

Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



	Midnight - 2:59 AM	3:00 AM - 5:59 AM	6:00 AM - 8:59 AM	9:00 AM - 11:59 AM	Noon - 2:59 PM	3:00 PM - 5:59 PM	6:00 PM - 8:59 PM	9:00 PM - 11:59 PM	Unknown	Total
2015	282	380	755	163	124	221	803	608	0	3,336
2016	284	437	808	147	130	208	829	640	0	3,483
2017	328	453	898	170	141	295	851	601	1	3,738
2018	353	564	1,020	179	145	294	1,007	702	0	4,264
2019	302	475	1,000	185	165	301	956	798	0	4,182
Average	310	462	896	169	141	264	889	670	0	3,801

TSN West Michigan (continued)



There were no fatal deer-involved crashes in TSN West Michigan in 2019

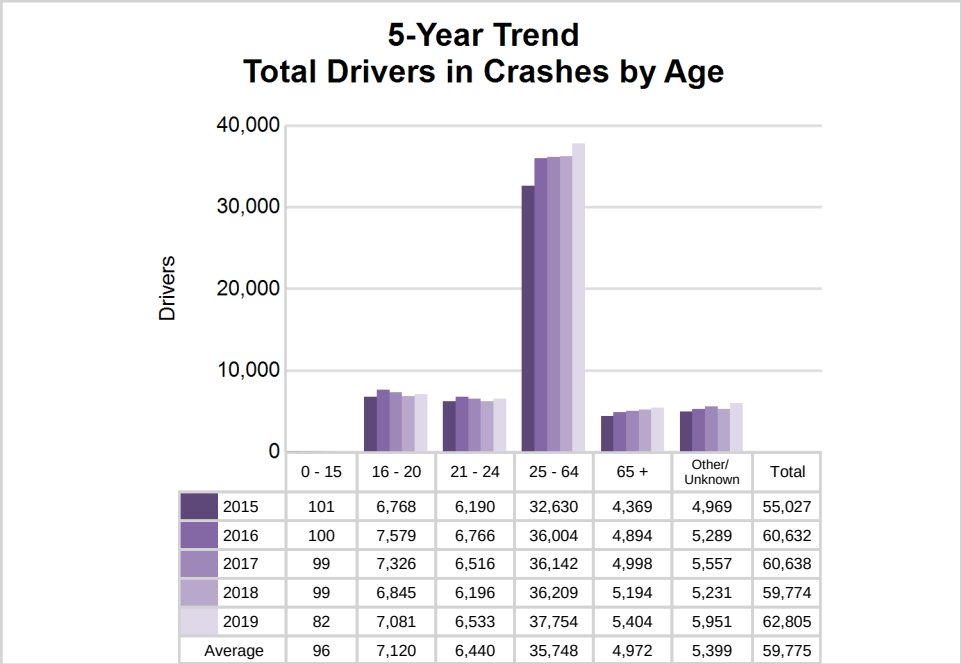
2019 - Reported Motor Vehicle Crashes by County

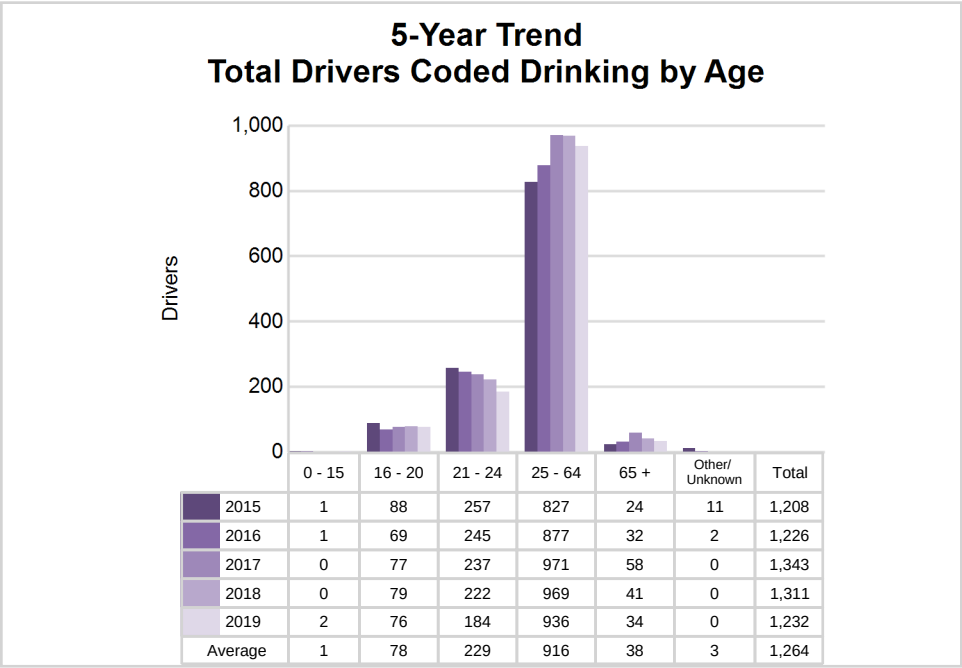
County	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Allegan	3,967	12	550	3,405	314	588	767	2,282	152	42	1,210	12	731
Kent	23,091	47	3,927	19,117	2,669	2,308	4,622	13,483	842	151	1,684	49	5,209
Ottawa	8,558	20	1,353	7,185	873	1,029	976	5,676	269	46	1,288	20	1,900
Total	**35,616**	**79**	**5,830**	**29,707**	**3,856**	**3,925**	**6,365**	**21,441**	**1,263**	**239**	**4,182**	**81**	**7,840**

TSN West Michigan (continued)

5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

Driver Age	2015		2016		2017		2018		2019	
	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking
0 - 15	101	1	100	1	99	0	99	0	82	2
16 - 20	6,768	88	7,579	69	7,326	77	6,845	79	7,081	76
21 - 24	6,190	257	6,766	245	6,516	237	6,196	222	6,533	184
25 - 64	32,630	827	36,004	877	36,142	971	36,209	969	37,754	936
65 +	4,369	24	4,894	32	4,998	58	5,194	41	5,404	34
Unknown	4,969	11	5,289	2	5,557	0	5,231	0	5,951	0
Total	**55,027**	**1,208**	**60,632**	**1,226**	**60,638**	**1,343**	**59,774**	**1,311**	**62,805**	**1,232**

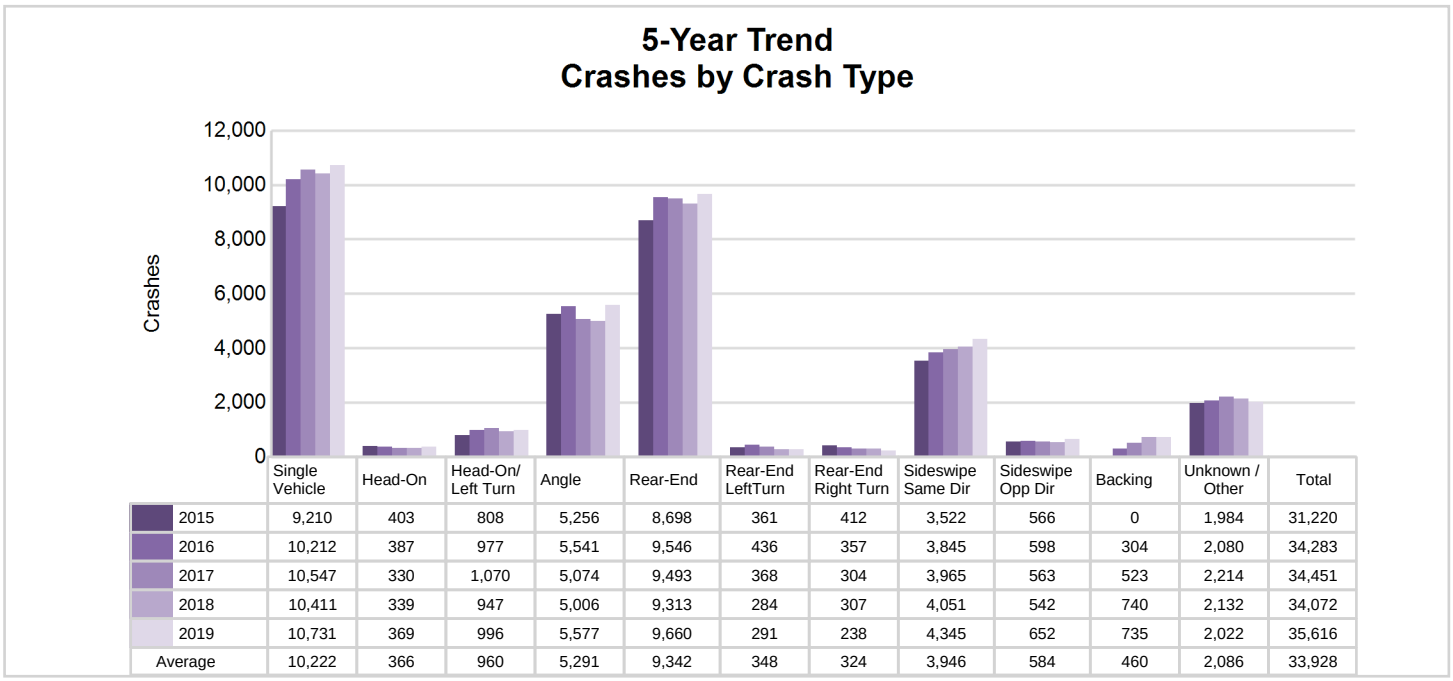




TSN West Michigan (continued)

5-Year Trend - Crashes by Crash Type

Crash Type	2015		2016		2017		2018		2019	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Single motor vehicle	9,210	44	10,212	40	10,547	37	10,411	44	10,731	33
Head-on	403	17	387	10	330	8	339	7	369	11
Head-on / left turn	808	0	977	10	1,070	4	947	4	996	5
Angle	5,256	18	5,541	24	5,074	25	5,006	28	5,577	17
Rear-end	8,698	5	9,546	7	9,493	8	9,313	10	9,660	7
Rear-end left turn	361	1	436	1	368	1	284	2	291	0
Rear-end right turn	412	0	357	0	304	0	307	0	238	0
Sideswipe same direction	3,522	1	3,845	0	3,965	5	4,051	1	4,345	0
Sideswipe opposite direction	566	0	598	1	563	0	542	0	652	2
Backing	0	0	304	0	523	0	740	0	735	0
Other / Unknown	1,984	7	2,080	2	2,214	7	2,132	3	2,022	4
Uncoded and Errors	0	0	1	0	0	0	0	0	0	0
Total	**31,220**	**93**	**34,284**	**95**	**34,451**	**95**	**34,072**	**99**	**35,616**	**79**



	Single Vehicle	Head-On	Head-On/ Left Turn	Angle	Rear-End	Rear-End LeftTurn	Rear-End Right Turn	Sideswipe Same Dir	Sideswipe Opp Dir	Backing	Unknown / Other	Total
2015	9,210	403	808	5,256	8,698	361	412	3,522	566	0	1,984	31,220
2016	10,212	387	977	5,541	9,546	436	357	3,845	598	304	2,080	34,283
2017	10,547	330	1,070	5,074	9,493	368	304	3,965	563	523	2,214	34,451
2018	10,411	339	947	5,006	9,313	284	307	4,051	542	740	2,132	34,072
2019	10,731	369	996	5,577	9,660	291	238	4,345	652	735	2,022	35,616
Average	10,222	366	960	5,291	9,342	348	324	3,946	584	460	2,086	33,928

TSN West Michigan (continued)

2019 - Bodily Alcohol Concentration (BAC) Results Among All Vehicle Drivers in Alcohol-Involved Crashes by Age

Age Group	Drivers				BAC Result Range for Drivers Coded Drinking				
	Total Drivers in Alcohol-Involved Crashes	Total Drivers Tested in all Crashes	Total Drivers Coded Drinking, Tested	Total Drivers Coded Drinking	BAC = 0.00	BAC 0.01 g/dL to 0.07 g/dL	BAC 0.08 g/dL to 0.16 g/dL	BAC 0.17 g/dL and Above	BAC Not Reported
0 - 15	4	1	1	2	0	1	0	0	1
16 - 20	126	106	63	76	0	11	30	13	22
21 - 24	237	194	153	184	0	21	60	50	53
25 - 64	1,292	959	746	936	0	80	234	292	330
65 +	77	65	29	34	0	3	13	8	10
Unknown	224	0	0	0	0	0	0	0	0
Total	**1,960**	**1,325**	**992**	**1,232**	**0**	**116**	**337**	**363**	**416**

Notes: BAC measured in grams (g) per deciliter (dL).
BAC may not be reported if drivers are not tested or if the results are not available immediately (as in the case of a blood test).
A driver may be coded by the officer as drinking even though no test is administered.

Alcohol-Involved Crashes

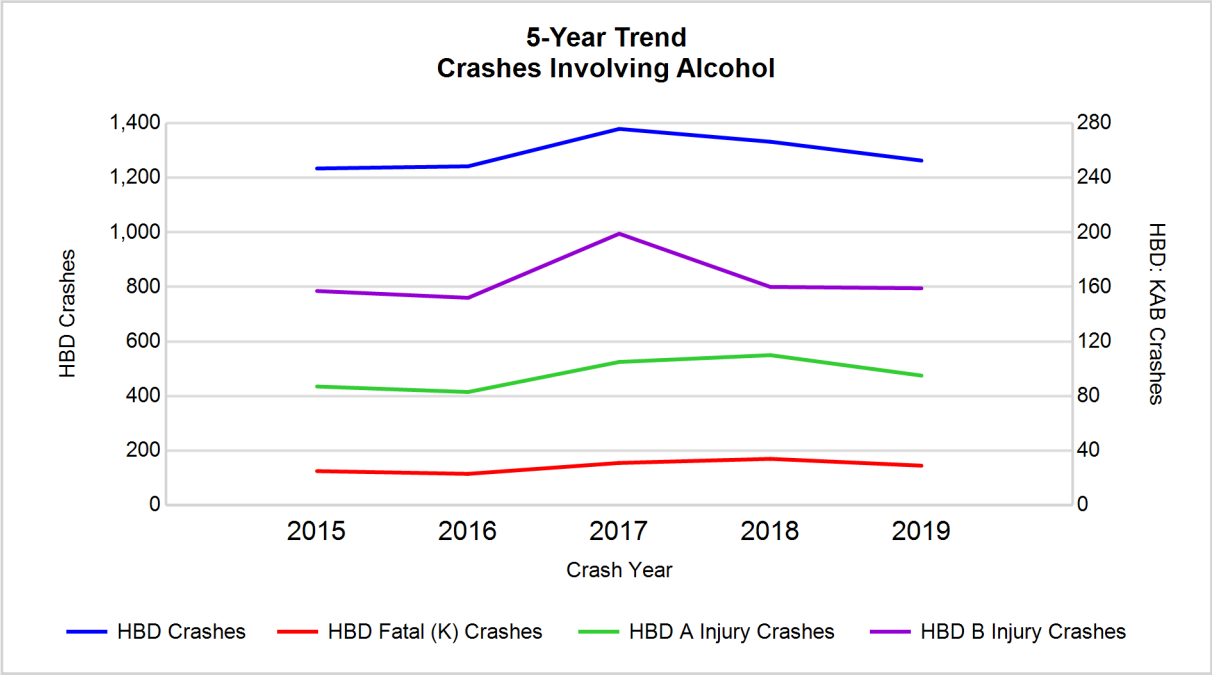
In 2019, there were 1,960 drivers in alcohol-involved crashes; 1,232 (62.9%) of those drivers were coded as had-been-drinking by the officer on the crash form.

- 700 (56.8%) of the 1,232 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 363 (51.9%) of the 700 drivers had a BAC at or above 0.17 g/dL.
- 992 (80.5%) of the 1,232 drivers were coded as had-been-drinking and were tested for alcohol consumption.

5-Year Trend - Crashes Involving Alcohol

Year	All Crashes	HBD Crashes	% HBD	Fatal Crashes	HBD Fatal Crashes	% HBD	A Injury Crashes	HBD A Injury Crashes	% HBD	B Injury Crashes	HBD B Injury Crashes	% HBD
2015	31,220	1,234	4.0	93	25	26.9	443	87	19.6	1,197	157	13.1
2016	34,284	1,242	3.6	95	23	24.2	579	83	14.3	1,552	152	9.8
2017	34,451	1,379	4.0	95	31	32.6	586	105	17.9	1,541	199	12.9
2018	34,072	1,332	3.9	99	34	34.3	545	110	20.2	1,505	160	10.6
2019	35,616**	1,263	3.5*	79*	29	36.7**	525	95	18.1	1,408	159	11.3

Note: * Indicates that the most recent year is the lowest number or percentage reported in the 5-year period in that column
** Indicates that the most recent year is the highest number or percentage reported in the 5-year period in that column



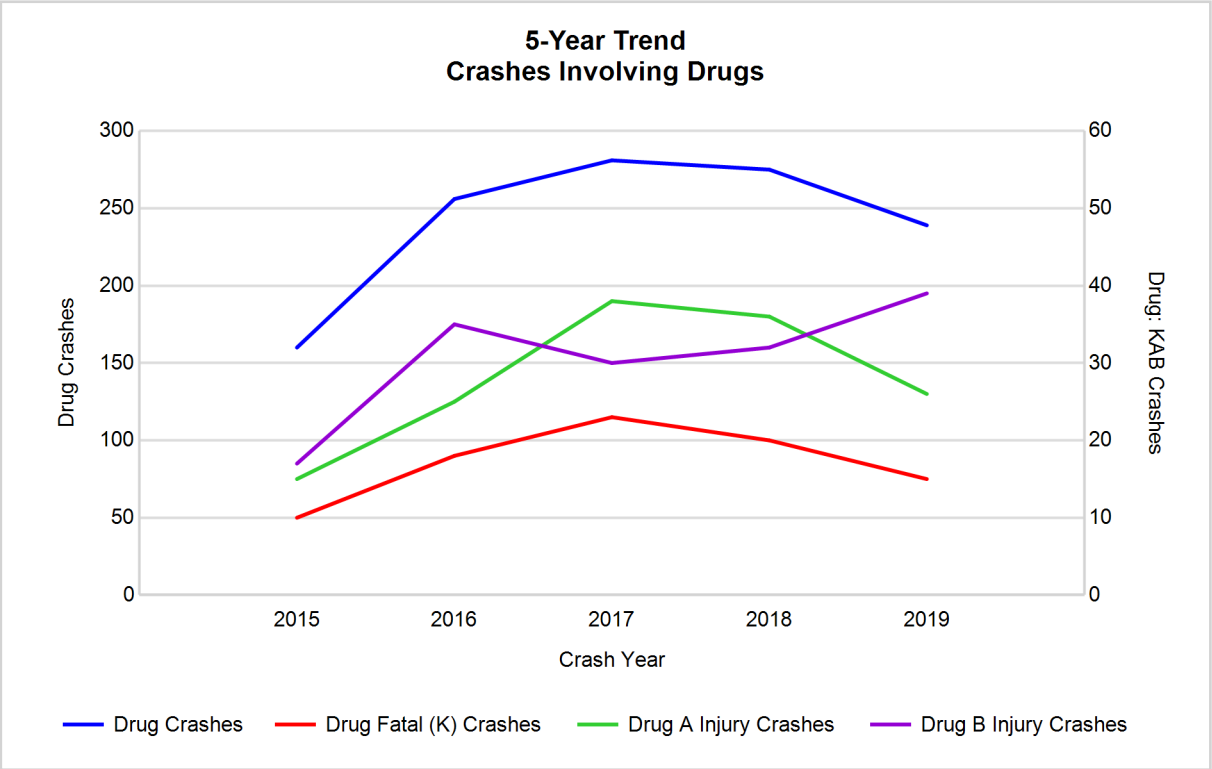
Note: Had-Been-Drinking (HBD)

TSN West Michigan (continued)

5-Year Trend - Crashes Involving Drugs

Year	All Crashes	Drug Crashes	% Drug	Fatal Crashes	Drug Fatal Crashes	% Drug	A Injury Crashes	Drug A Injury Crashes	% Drug	B Injury Crashes	Drug B Injury Crashes	% Drug
2015	31,220	160	0.5	93	10	10.8	443	15	3.4	1,197	17	1.4
2016	34,284	256	0.7	95	18	18.9	579	25	4.3	1,552	35	2.3
2017	34,451	281	0.8	95	23	24.2	586	38	6.5	1,541	30	1.9
2018	34,072	275	0.8	99	20	20.2	545	36	6.6	1,505	32	2.1
2019	35,616**	239	0.7	79*	15	19.0	525	26	5.0	1,408	39**	2.8**

Note: * Indicates that the most recent year is the lowest number or percentage reported in the 5-year period in that column
** Indicates that the most recent year is the highest number or percentage reported in the 5-year period in that column

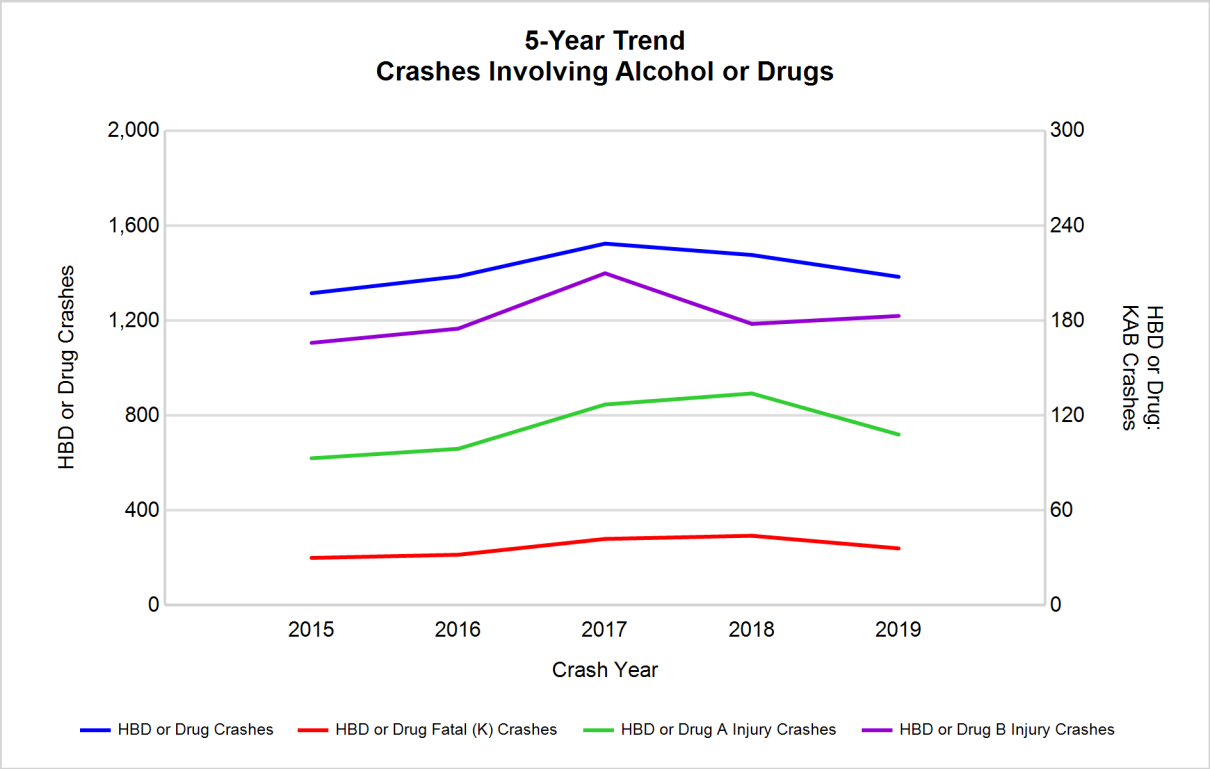


TSN West Michigan (continued)

5-Year Trend - Crashes Involving Alcohol or Drugs

Year	All Crashes	HBD or Drug Crashes	% HBD or Drug	Fatal Crashes	HBD or Drug Fatal Crashes	% HBD or Drug	A Injury Crashes	HBD or Drug A Injury Crashes	% HBD or Drug	B Injury Crashes	HBD or Drug B Injury Crashes	% HBD or Drug
2015	31,220	1,316	4.2	93	30	32.3	443	93	21.0	1,197	166	13.9
2016	34,284	1,387	4.0	95	32	33.7	579	99	17.1	1,552	175	11.3
2017	34,451	1,525	4.4	95	42	44.2	586	127	21.7	1,541	210	13.6
2018	34,072	1,477	4.3	99	44	44.4	545	134	24.6	1,505	178	11.8
2019	35,616**	1,385	3.9*	79*	36	45.6**	525	108	20.6	1,408	183	13.0

Note: * Indicates that the most recent year is the lowest number or percentage reported in the 5-year period in that column
** Indicates that the most recent year is the highest number or percentage reported in the 5-year period in that column



Note: Had-Been-Drinking (HBD)

TSN West Michigan (continued)

2019 - Restraints Worn Among Vehicle Drivers and Injured Passengers by Vehicle Type

Vehicle Type	Total Occupants			Fatalities			A - Suspected Serious			B - Suspected Minor			C - Possible Injury			No Injury		
	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%
Passenger car, SUV, van	53,636	48,083	89.6	48	30	62.5	436	360	82.6	1,379	1,262	91.5	4,752	4,571	96.2	43,240	41,860	96.8
Motor home	71	61	85.9	0	0	0.0	2	2	100.0	0	0	0.0	2	2	100.0	60	57	95.0
Pickup truck	6,312	5,705	90.4	5	3	60.0	39	28	71.8	124	111	89.5	362	348	96.1	5,377	5,215	97.0
Small truck under 10,000 lbs. GVWR	209	176	84.2	0	0	0.0	0	0	0.0	1	1	100.0	8	8	100.0	173	167	96.5
Motorcycle	312	209	67.0	9	3	33.3	69	34	49.3	91	66	72.5	57	43	75.4	76	63	82.9
Moped / goped	52	22	42.3	2	0	0.0	7	2	28.6	12	8	66.7	16	8	50.0	8	4	50.0
Go-cart / golf cart	2	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1	0	0.0	0	0	0.0
Snowmobile	1	1	100.0	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0	0	0	0.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	12	4	33.3	0	0	0.0	4	2	50.0	4	1	25.0	1	0	0.0	3	1	33.3
Other	182	107	58.8	1	0	0.0	0	0	0.0	3	2	66.7	11	7	63.6	128	98	76.6
Truck/bus over 10,000 lbs.	2,127	1,976	92.9	0	0	0.0	3	2	66.7	11	8	72.7	67	42	62.7	1,974	1,924	97.5
Unknown	1,752	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1	0	0.0
Total	**64,668**	**56,344**	**87.1**	**65**	**36**	**55.4**	**560**	**430**	**76.8**	**1,625**	**1,459**	**89.8**	**5,278**	**5,030**	**95.3**	**51,040**	**49,389**	**96.8**

Note: Restraint Use includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, child restraint used, restraint failure, and helmet worn.

2019 - Restraints Worn Among Vehicle Drivers and Injured Passengers by Age

Age Group	Total Occupants			Fatalities			A - Suspected Serious			B - Suspected Minor			C - Possible Injury			No Injury		
	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%
0 - 15	586	541	92.3	0	0	0.0	28	21	75.0	106	95	89.6	387	367	94.8	65	58	89.2
16 - 20	7,406	7,114	96.1	5	3	60.0	55	41	74.5	232	205	88.4	670	618	92.2	6,426	6,247	97.2
21 - 24	6,679	6,386	95.6	6	4	66.7	58	42	72.4	167	152	91.0	530	506	95.5	5,899	5,682	96.3
25 - 64	38,428	36,843	95.9	40	18	45.0	336	254	75.6	934	833	89.2	3,133	3,000	95.8	33,875	32,738	96.6
65 +	5,617	5,458	97.2	14	11	78.6	82	72	87.8	186	174	93.5	558	539	96.6	4,770	4,662	97.7
Unknown	5,952	2	0.0	0	0	0.0	1	0	0.0	0	0	0.0	0	0	0.0	5	2	40.0
Total	**64,668**	**56,344**	**87.1**	**65**	**36**	**55.4**	**560**	**430**	**76.8**	**1,625**	**1,459**	**89.8**	**5,278**	**5,030**	**95.3**	**51,040**	**49,389**	**96.8**

Note: Restraint Use includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, child restraint used, restraint failure, and helmet worn.

TSN West Michigan (continued)

5-Year Trend - Restraint Use Among Drivers

Restraint Use	2015			2016			2017			2018			2019		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	183	0	17	119	2	10	85	0	8	104	0	13	93	1	11
Shoulder belt only used	192	0	22	324	0	28	208	0	33	208	0	33	278	1	36
Lap belt only used	424	2	31	344	0	41	211	0	29	143	0	19	126	0	9
Both lap & shoulder belts used	47,070	28	4,588	52,193	30	5,474	51,990	32	5,254	51,830	40	5,213	54,034	27	5,063
No belts used	429	15	89	400	11	115	311	14	96	250	11	97	244	11	91
Child restraint used	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Child restraint not used, unavailable or improper use	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	49	1	4	47	0	7	37	0	7	32	0	3	21	0	2
Restraint use unknown	1,702	2	111	5,323	9	148	7,357	6	153	6,854	6	161	7,669	6	160
Helmet worn	274	5	195	259	4	201	247	10	173	221	10	164	220	3	149
Helmet not worn	131	6	95	150	8	112	127	5	102	106	2	83	101	8	81
Helmet use unknown	16	1	8	17	1	9	16	0	7	9	0	7	13	0	6
Uncoded & errors	4,555	0	7	1,454	0	2	49	0	0	17	0	0	6	0	0
Total	**55,027**	**60**	**5,167**	**60,632**	**65**	**6,147**	**60,638**	**67**	**5,862**	**59,774**	**69**	**5,793**	**62,805**	**57**	**5,608**

5-Year Trend - Restraint Use Among Drivers Coded Drinking

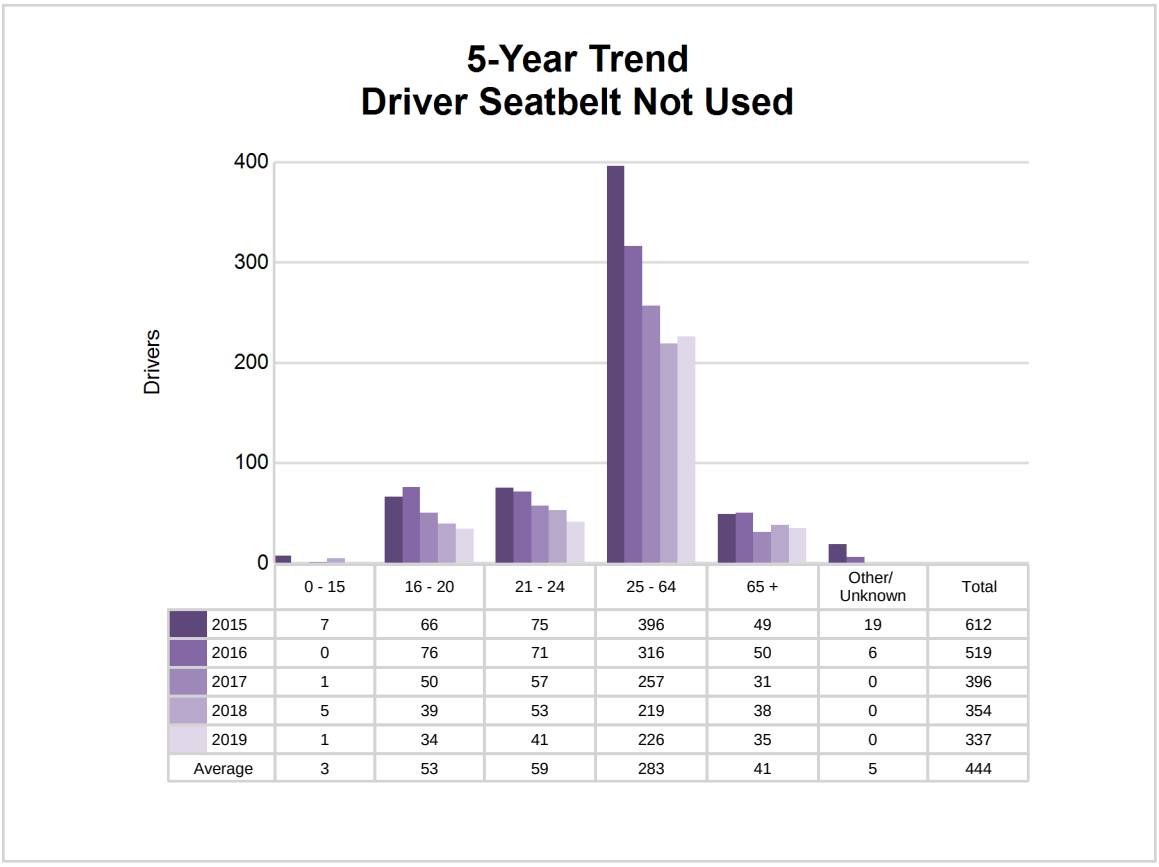
Restraint Use	2015			2016			2017			2018			2019		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	1	0	0	3	0	0	3	0	1	2	0	0	2	0	1
Shoulder belt only used	10	0	1	11	0	0	4	0	3	5	0	1	5	0	0
Lap belt only used	13	1	1	7	0	2	4	0	0	1	0	1	0	0	0
Both lap & shoulder belts used	888	2	204	886	2	208	987	4	254	964	10	232	889	4	204
No belts used	62	3	30	55	6	28	45	7	25	44	6	26	40	7	24
Child restraint used	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Child restraint not used, unavailable or improper use	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	7	0	0	4	0	2	1	0	0	3	0	1	0	0	0
Restraint use unknown	180	1	41	222	3	56	259	2	49	263	2	65	260	4	58
Helmet worn	12	2	8	13	0	10	12	1	9	12	1	7	9	1	8
Helmet not worn	22	3	17	25	4	20	27	2	22	16	1	14	23	3	20
Helmet use unknown	4	1	2	0	0	0	1	0	1	1	0	1	4	0	2
Uncoded & errors	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**1,208**	**13**	**304**	**1,226**	**15**	**326**	**1,343**	**16**	**364**	**1,311**	**20**	**348**	**1,232**	**19**	**317**

TSN West Michigan (continued)

5-Year Trend - Seatbelt Not Used Among Drivers by Age

Age Group	2015			2016			2017			2018			2019		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	7	0	2	0	0	0	1	0	1	5	0	1	1	0	0
16 - 20	66	1	13	76	3	15	50	2	18	39	0	19	34	0	7
21 - 24	75	0	12	71	1	13	57	3	13	53	2	19	41	1	15
25 - 64	396	12	67	316	5	80	257	9	65	219	8	63	226	8	67
65 +	49	2	12	50	4	17	31	0	7	38	1	8	35	3	13
Unknown	19	0	0	6	0	0	0	0	0	0	0	0	0	0	0
Total	**612**	**15**	**106**	**519**	**13**	**125**	**396**	**14**	**104**	**354**	**11**	**110**	**337**	**12**	**102**

Note: Seatbelt Not Used includes no belts available or no belts used.



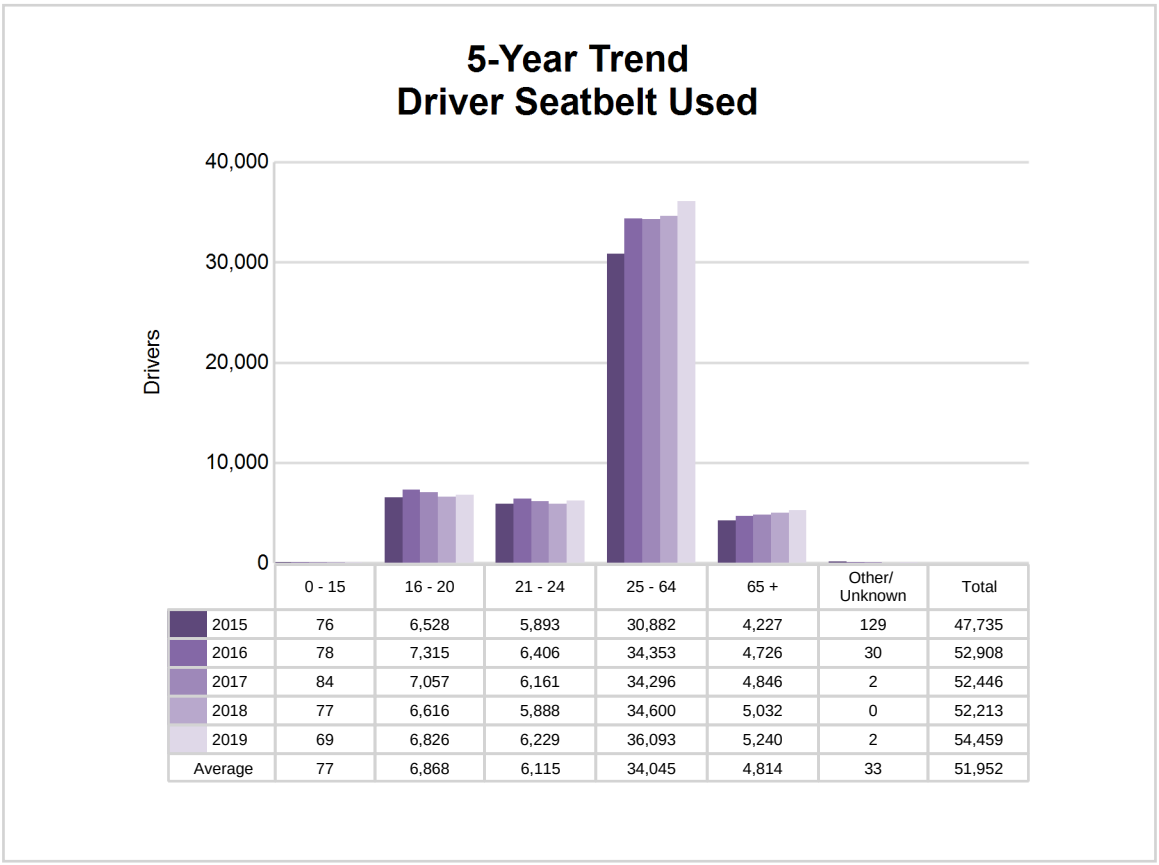
	0 - 15	16 - 20	21 - 24	25 - 64	65 +	Other/ Unknown	Total
2015	7	66	75	396	49	19	612
2016	0	76	71	316	50	6	519
2017	1	50	57	257	31	0	396
2018	5	39	53	219	38	0	354
2019	1	34	41	226	35	0	337
Average	3	53	59	283	41	5	444

TSN West Michigan (continued)

5-Year Trend - Seatbelt Used Among Drivers by Age

Age Group	2015			2016			2017			2018			2019		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	76	0	8	78	0	8	84	0	8	77	0	4	69	0	11
16 - 20	6,528	6	645	7,315	4	755	7,057	5	722	6,616	0	614	6,826	3	580
21 - 24	5,893	4	532	6,406	5	661	6,161	3	562	5,888	3	559	6,229	3	552
25 - 64	30,882	15	2,991	34,353	17	3,564	34,296	14	3,434	34,600	28	3,445	36,093	12	3,393
65 +	4,227	6	469	4,726	4	562	4,846	10	597	5,032	9	646	5,240	10	574
Unknown	129	0	0	30	0	0	2	0	0	0	0	0	2	0	0
Total	**47,735**	**31**	**4,645**	**52,908**	**30**	**5,550**	**52,446**	**32**	**5,323**	**52,213**	**40**	**5,268**	**54,459**	**28**	**5,110**

Note: Seatbelt Used includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, and restraint failure.

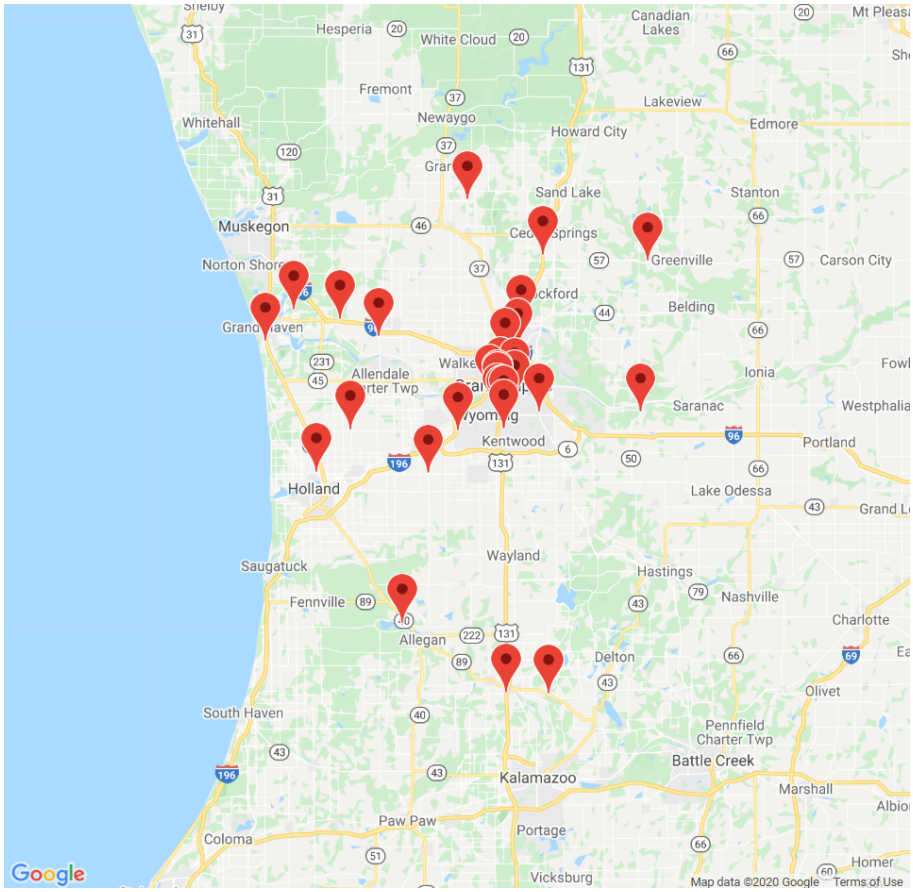


TSN West Michigan (continued)

5-Year Trend - Drivers in Crashes by Hazardous Action

Hazardous Action	2015		2016		2017		2018		2019	
	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes
None	28,111	71	30,645	75	30,606	77	30,152	73	31,601	59
Speed too fast	3,418	15	4,026	17	3,873	11	3,648	19	4,345	17
Speed too slow	88	1	86	0	42	1	47	0	38	0
Failed to yield	5,110	9	5,605	14	5,491	12	5,480	16	5,873	16
Disregard traffic control	1,370	9	1,395	15	1,306	14	1,270	6	1,276	6
Drove wrong way	57	0	53	0	42	2	28	0	29	0
Drove left of center	223	6	261	3	237	5	215	3	266	8
Improper passing	262	4	323	1	348	1	310	0	315	0
Improper lane use	1,229	1	1,435	3	1,444	1	1,618	1	1,660	0
Improper turn	570	0	576	0	620	0	592	0	613	0
Improper/no signal	151	0	84	0	52	0	52	0	50	0
Improper backing	925	0	968	0	894	0	807	0	808	0
Unable to stop in assured clear distance	8,053	2	9,091	4	9,053	10	8,916	12	9,270	6
Other	2,093	6	2,156	9	2,231	4	2,037	5	2,160	5
Unknown	1,774	15	2,229	10	2,780	6	2,884	20	2,954	7
Reckless driving	285	2	293	7	268	8	247	6	266	2
Careless/negligent driving	1,285	6	1,387	2	1,336	5	1,461	4	1,274	8
Uncoded & errors	23	0	19	0	15	1	10	1	7	1
Total	**55,027**	**147**	**60,632**	**160**	**60,638**	**158**	**59,774**	**166**	**62,805**	**135**

TSN West Michigan (continued)



The picture above represents all 2019 alcohol-involved fatal crashes in TSN West Michigan.

In 2019, there were 1,263 alcohol-involved crashes in TSN West Michigan:

29	K - Fatal Crashes
95	A - Suspected Serious Injury Crashes
159	B - Suspected Minor Injury Crashes
193	C - Possible Injury Crashes
787	O - Property Damage Only/No Injury Crashes

Office of Highway Safety Planning

Physical Address:
7150 Harris Drive
Dimondale, Michigan 48821

Mailing Address:
P.O. Box 30634
Lansing, Michigan 48909

Phone: (517) 284-3112
Fax: (517) 284-3151

Find us on the web:
MichiganTrafficCrashFacts.org

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